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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,273	09/11/2003	Pierre Etienne Bindschedler	0514-1121	5627
466	7590	07/01/2005	EXAMINER	
YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202				RUDDOCK, ULA CORINNA
		ART UNIT		PAPER NUMBER
				1771

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/659,273	BINDSCHEDLER ET AL.
Examiner	Art Unit	
Ula C. Ruddock	1771	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 25 May 2005.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-12 is/are pending in the application.
4a) Of the above claim(s) 7-12 is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-6 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____.
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9/11/03.
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____.

DETAILED ACTION

1. Applicant's election with traverse of Group I in the reply filed on May 25, 2005, is acknowledged. The traversal is on the ground(s) that all the claims are coextensive in scope and indivisible from each other. This is not found persuasive because as shown in the restriction requirement mailed April 26, 2005, Group I does not relate to Group II because Group I does not require a chain elongated agent. Finally, claims 11 and 12 are dependent upon the method claims and remain with the method claims for restriction purposes, since they had no structure to the claims of Group I.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

2. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. Regarding claim 1, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d). Furthermore, it is unclear what is incorporated as part of the claimed invention with the use of the word "preferably."

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Terry et al. (US 5,981,010). Terry et al. disclose polyurethane-modified bitumen coating compositions. The composition comprises bitumen, a modifying amount of a polyurethane prepared by the reaction of a polyisocyanate and a hydroxyl terminated polybutadiene, and a filler material (abstract). It should be noted that the aromatic oil, filler, and catalyst ingredients are optional, since the amounts of these materials range from 0%. The composition also comprises aromatic oil (col 2, ln 40-41). The filler material can be talc in an amount from 0-40% (col 3, ln 19-25). The urethane polymer has a functionality ranging from about 2.2 to about 2.6 (col 3, ln 50-56). The urethane polymer is in an amount of about 2-25% (col 4, ln 33-36). The composition also has a catalyst system (col 4, ln 40-41). Tackifiers are also used in the composition (col 5, ln 18), which the Examiner is equating to Applicant's additives that improve adhesion of claim 3. As seen in Example 1, the bitumen is present in an amount of 64%, i.e. 350 grams/547.8 grams= 0.64 and the oil is present in an amount of 9.9%, i.e. 54/547.8=0.985 (col 6, ln 50-62).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terry et al. (US 5,981,010), as shown above, in view of GB 1314352 (GB '342). Terry et al. disclose the

claimed invention except for the teaching that the polyurethane has a molecular weight between 1000-5000 and that the thermoplastic polyurethane has between 10-40% hard segments.

GB '342 discloses thermoplastic bitumen products containing small amounts of polyurethane. The polyurethane has a functionality of 2-8 and a molecular weight of 400-10,000. It would have been obvious to one having ordinary skill in the art to have used the molecular weight as disclosed by GB '342 in the composition of Terry, motivated by the desire to create a polyurethane having high strength. It also would have been obvious to have used a polyurethane having 10-40% hard segments, motivated by the desire to create a composition having high durability.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ula C. Ruddock whose telephone number is 571-272-1481. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

UCL
UCR

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